AMENDMENTS TO THE CLAIMS

- 1. (Canceled)
- 2. (Canceled)
- 3. (Currently Amended) The method of claim 2 5, wherein evaluating a downlink signal comprises: determining a signal quality metric associated with the downlink signal; comparing the signal quality metric to a signal quality metric threshold; and determining whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the comparison.
- 4. (Currently Amended) The method of claim 2, wherein evaluating a downlink signal comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

determining a signal quality metric associated with the <u>a</u> downlink signal; determining an uplink coding scheme based the signal quality metric; and

determining whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the determined uplink coding scheme; and

when the mobile station is experiencing a change in radio frequency conditions, instructing the mobile station to change a cell reselection mode used by the mobile station.

5. (Currently Amended) The method of claim 2, wherein instructing the mobile station to change a cell reselection mode used by the mobile station comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

evaluating a downlink signal;

determining whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation of the downlink signal;

when the evaluation of the downlink signal indicates a deterioration of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode, instructing the mobile station to switch to a network-controlled cell reselection mode; and

when the evaluation of the downlink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using a network-controlled cell reselection mode, instructing the mobile station to switch to an autonomous cell reselection mode.

6. (Currently Amended) The method of claim 2, wherein changing a cell reselection mode of the mobile station comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

evaluating a downlink signal;

determining whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation of the downlink signal; and

when the evaluation of the downlink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode that requires reporting, instructing the mobile station to switch to an autonomous cell reselection mode that does not require reporting.

- 7. (Currently Amended) The method of claim 2 5, wherein evaluating a downlink signal comprises evaluating one or more downlink signals received over an evaluation period.
- 8. (Canceled)
- 9. (Currently Amended) The method of claim § 11, wherein evaluating a downlink signal comprises:

determining a signal quality metric associated with the uplink signal; comparing the signal quality metric to a signal quality metric threshold; and determining whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the comparison.

10. (Currently Amended) The method of claim 8, wherein evaluating an uplink signal comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

determining a signal quality metric associated with the an uplink signal;

determining an uplink coding scheme based on the signal quality metric; and

determining whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the determined uplink coding scheme; and

when the mobile station is experiencing a change in radio frequency conditions, instructing the mobile station to change a cell reselection mode used by the mobile station.

11. (Currently Amended) The method of claim 8, wherein changing a cell reselection mode of the mobile station comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

evaluating an uplink signal;

determining whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation of the uplink signal;

when the evaluation of the uplink signal indicates a deterioration of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode, instructing the mobile station to switch to a network-controlled cell reselection mode; and

when the evaluation of the uplink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using a network-controlled cell reselection mode, instructing the mobile station to switch to an autonomous cell reselection mode.

12. (Currently Amended) The method of claim 8, wherein changing a cell reselection mode of the mobile station comprises A method for controlling a cell reselection mode of a mobile station while the mobile station resides in a cell comprising:

determining a cell reselection mode of the mobile station, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station;

evaluating an uplink signal;

determining whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation of the uplink signal; and

when the evaluation of the uplink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode that requires reporting, instructing the mobile station to switch to an autonomous cell reselection mode that does not require reporting.

- 13. (Currently Amended) The method of claim § 11, wherein evaluating an uplink signal comprises evaluating one or more uplink signals received over an evaluation period.
- 14. (Currently Amended) The method of claim ± 5 , wherein instructing the mobile station to switch a cell reselection mode used by the mobile station comprises, when the evaluation of the downlink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station, instructing the mobile station to lengthen a reporting period associated with a cell reselection mode used by the mobile station.
- 15. (Canceled)
- 16. (Canceled)

- 17. (Currently Amended) The network controller of claim 16 19, wherein the processor evaluates the signal quality metric by comparing the signal quality metric to a signal quality metric threshold and further determines whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the comparison.
- 18. (Currently Amended) The network controller of claim 16, wherein the processor evaluates the signal quality metric by determining A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, determines a signal quality metric associated with a downlink signal, determines an uplink coding scheme based the signal quality metric, and further determines whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the determined uplink coding scheme, and when the mobile station is experiencing a change in radio frequency conditions, instructs the mobile station to change a cell reselection mode.

19. (Currently Amended) The network controller of claim 16, wherein the processor instructs the mobile station to change a cell reselection mode used by the mobile station by A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, evaluates a downlink signal quality metric associated with a downlink signal, determines whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation, when the evaluation of the downlink signal quality metric indicates a deterioration of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode, instructing instructs the mobile station to switch to a network-controlled cell reselection mode, and when the evaluation of the

downlink signal quality metric indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using a network-controlled cell reselection mode, instructing instructs the mobile station to switch to an autonomous cell reselection mode.

20. (Currently Amended) The network controller of claim 16 wherein the processor instructs the mobile station to change a cell reselection mode used by the mobile station by, A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, evaluates a downlink signal quality metric associated with a downlink signal, determines whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation, and when the evaluation of the downlink signal quality metric indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode that requires reporting, instructing instructs the mobile station to switch to an autonomous cell reselection mode that does not require reporting.

21. (Currently Amended) The network controller of claim 46 19, wherein the processor evaluates a downlink signal quality metric by evaluating downlink signal quality metrics over an over an evaluation period.

22. (Canceled)

23. (Currently Amended) The network controller of claim 22 25, wherein the processor evaluates the uplink signal quality metric by comparing the uplink signal quality metric to a signal quality metric threshold and further determines whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the comparison.

24. (Currently Amended) The network controller of claim 22, wherein the processor evaluates the uplink signal quality metric by determining A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, evaluates an uplink signal quality metric associated with an uplink signal, determines an uplink coding scheme based on the uplink signal quality metric, and further determines whether the mobile station is experiencing a change in radio frequency (RF) conditions based on the determined uplink coding scheme, and when the mobile station is experiencing a change in radio frequency conditions, instructs the mobile station to change a cell reselection mode.

25. (Currently Amended) The network controller of claim 22, wherein the processor instructs the mobile station to change a cell reselection mode used by the mobile station by A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, evaluates an uplink signal quality metric associated with an uplink signal, determines whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation, when the evaluation of the uplink signal quality metric indicates a deterioration of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode, and when the evaluation of the uplink signal quality metric indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using a network-controlled cell reselection mode, instructing instructs the mobile station to switch to an autonomous cell reselection mode.

26. (Currently Amended) The network controller of claim 22, wherein the processor instructs the mobile station to change a cell reselection mode used by the mobile station by, A network controller comprising:

at least one memory device that stores a default cell reselection mode associated with a cell serviced by the network controller; and

a processor coupled to the at least one memory device that determines a cell reselection mode of a mobile station located in the cell, wherein the cell reselection mode comprises one or more of (i) whether a cell reselection will be autonomous or network-controlled and (ii) the reporting requirements of the mobile station, evaluates an uplink signal quality metric associated with an uplink signal, determines whether the mobile station is experiencing a change in radio frequency conditions based on the evaluation, and when the evaluation of the uplink signal quality metric indicates an improvement of radio frequency (RF) conditions experienced by the mobile station and the mobile station is using an autonomous cell reselection mode that requires reporting, instructing instructs the mobile station to switch to an autonomous cell reselection mode that does not require reporting.

- 27. (Currently Amended) The network controller of claim 22 25, wherein the processor evaluates an uplink signal quality metric by evaluating uplink signal quality metrics over an evaluation period.
- 28. (Currently Amended) The network controller of claim 45 25, wherein the processor instructs the mobile station to switch a cell reselection mode used by the mobile station comprises by, when the evaluation of the downlink signal indicates an improvement of radio frequency (RF) conditions experienced by the mobile station, instructing the mobile station to lengthen a reporting period associated with a cell reselection mode used by the mobile station.
- 29. (Currently Amended) The network controller of claim 15 18, wherein the network controller comprises at least one of a Base Station Controller, a Packet Control Unit, and a Packet Control Function.
- 30. (New) The network controller of claim 24, wherein the network controller comprises at least one of a Base Station Controller, a Packet Control Unit, and a Packet Control Function.